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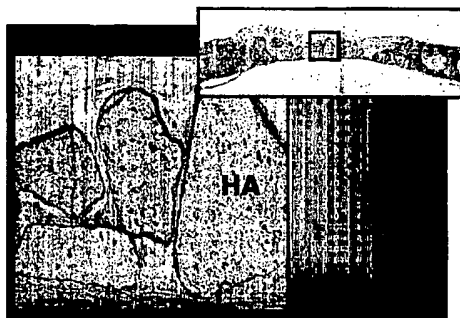
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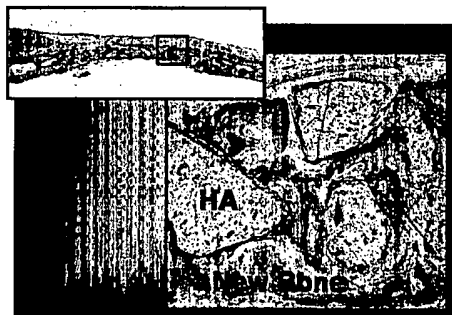
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(54) Title: **BONE GRAFT AND SCAFFOLDING MATERIALS IMMOBILIZED WITH OSTEOGENESIS ENHANCING PEPTIDES ON THE SURFACE**

A)



B)



(57) Abstract: The present invention relates to a bone graft material and a scaffold for tissue engineering applications, which have an osteogenesis-promoting peptide immobilized on the surface. More particularly, the invention relates to a bone graft material and a scaffold for tissue engineering applications, which have a cell adhesion-inducing peptide and/or tissue growth factor-derived peptide immobilized on the surface. By the osteogenesis-promoting peptide immobilized on the surface, the inventive bone graft material and scaffold for tissue engineering applications can promote the transition, proliferation and differentiation of cells associated with regeneration, and eventually maximize the regeneration of tissue. Moreover, the peptide immobilized on the surface has low molecular weight, indicating a reduced risk of immune responses upon its application in the body, and can be present in a stable form within the body, thus showing lasting effects. Accordingly, the peptide makes it expedient to perform surgical operations for the regeneration of periodontal tissue, alveolar bone and other bone tissues, and will show high therapeutic effect.



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